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153A 3474

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Art Unit: 2875
SATOSHI YAMAMURA	Examiner: --
Serial No: 10/678,544	
Filed: October 3, 2003	
For: VEHICULAR HEADLAMP	

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, Applicant for the above-identified application hereby submits legible copies of the following relevant arts along with the Form PTO-1449 which contains the information required by 37 CFR 1.98(b):

A. Japanese Utility Model Application Publication No. 2-47704 published by the Japanese Patent Office on April 3, 1990;

B. U.S. Patent No. 1,721,611 issued to Webster on July 23, 1929;

C. EPO Patent Publication No. 0 212 211 published by the EPO on March 4, 1987 corresponding to U.S. Patent No. 4,677,532 issued to Peitz et al. on June 30, 1987;

D. Great Britain Patent Specification No. 1,193,983 published by the British Patent Office on June 3, 1970;

E. U.S. Patent No. 6,332,702 issued to Hebler et al. on December 25, 2001;

F. Austrian Patent Application Publication No. 406 079 published by the Austrian Patent Office on February 25, 2000;

G. Japanese Patent Application Laid-Open (Kokai) No. 2001-006408 published by the Japanese Patent Office on January 12, 2001;

H. Japanese Patent Application Laid-Open (Kokai) No. 2002-170409 published by the Japanese Patent Office on June 14, 2002;

I. French Patent Publication No. 2 849 159 published by the French Patent Office on June 25, 2004;

J. U.S. Patent Application Publication No. 2004/0114390 published to Yamamura on June 17, 2004; and

K. U.S. Patent No. 4,677,532 issued to Peitz et al. on June 30, 1987.

Prior art A is not in the English language, but the concise explanation of relevance of this prior art is incorporated in the specification pursuant to 37 CFR 1.98(a)(3). Nonetheless, a further concise explanation of the relevance of each of these prior art is presented below:

> This prior art discloses a vehicular headlamp; and in the headlamp of this prior art, the glass bulb portion 40 of the light bulb 4 is inserted through the insertion hole 74 of the bulb holder 7 so that the bulb portion 40 is in front of the reflection surface 10 of the reflector 100, the flange 43 of the light bulb 4 is brought into contact with the projection 78 of the bulb holder 7, and the attachment spring 79 is, while being pressed against the back of the flange 43 of the bulb 4, is engaged with the attachment portion 77 of the bulb holder 7. The bulb 4 is thus installed in a detachable fashion in the bulb holder 7 so that the lengthwise direction D-D of the bulb 4 and the optical axis direction Z-Z of the reflector 100 cross at right angles and the filament of the bulb 4 is located near the focal point F of the reflector 100. Since the bulb 4 is detachable in the lateral direction with respect to the optical axis (Z-Z) of the reflector 100, the length ℓ2 (see Figure 16 of this prior art) between the front side of the convex lens 5 and rear side of the reflector 100, that is equivalent to the length of the projector unit in the direction of the optical axis Z-Z, is shortened compared to the existing headlamps. As a result, the entire length ℓ' of the headlamp is small.
>
> When the bulb 4 is installed, the main body 70 of the bulb holder 7 is in contact with the edge of the attachment hole 12 of the reflector 100. Accordingly, the load during the installation of the bulb 4 via the mount spring 79 in the bulb holder 7 is in the direction of arrow B in Figure 18 and is fully received by the bulb holder 7; and the reflector 100 is prevented from being deformed. In addition, the first and second engagement portions 75 and 76 of the bulb holder 7 are respectively engaged with the edge of the attachment hole 12 of the reflector 100. Accordingly, the load during replacement of the bulb 4 is in the direction of arrow C and is fully received by the bulb

holder 7. Furthermore, the bulb holder 7 is mounted on the reflector 100 with its first and second engagement portions 75 and 76 in contact with the main body 70 of the bulb holder 7, the attachment portion 71 and the edge of the attachment hole 12 of the reflector 100. Accordingly, the bulb holder 7 is securely and accurately mounted on the reflector 7, and the filament of the bulb 4 is positioned with high accuracy.

The attachment hole 12 of the reflector 100 is made by being punched out. Accordingly, caulking and bending of the reflector at the time of mounting of the bulb holder are not required, and thus the reflector 100 is provided with high accuracy.

In short, in the reflector of this prior art, since the bulb holder is provided on the lateral side of the optical axis of the reflector, the light bulb is detachably installed on the lateral side with respect to the optical axis of the reflector; and this structure shortens the length (or the depth) of the headlamp.

Prior art B-J are all cited in the French Search Report issued on August 31, 2004 to the French Application No. FR 0400165 which is a counterpart application to the above-identified U.S. application. A copy of the Search Report is enclosed.

Description re prior art C corresponding to U.S. Patent No. 4,677,532 issued to Peitz et al. is attached as an English translation.

Since prior art F is not in English and no English translation or English language abstract is available at this time to the undersigned, a concise explanation of the relevance of this prior art is presented below pursuant to 37 CFR 1.1.98(a)(3):

Proposed in this patent is a vehicle headlight with a reflector comprising a combination of different curvatures, wherein at least one of these curvatures is formed as reflection surface with a certain function and at least a further curvature is formed as a rule surface (i.e. a surface created by moving a straight line in space), a bulb with a coil which is oriented horizontally and preferably perpendicular to optical axis of the headlight, a cover plate and a projection lens arranged between cover plate and bulb, characterized in: that in a horizontal section through the plane of the coil the curvature portion (1b) of the reflector (1) which is arranged behind and around the bulb (2), is formed as spherical profile; that the laterally adjacent portion (1b') of the reflector (1) is formed as a paraboloid; and that a further curvature portion (1a) reflects light emitted by the coil to the surface of the reflector in a convergent manner to the optical axis in a way known in the art, wherein the convergence increases in a way known in the art with increasing distance between the surface of the reflector and the optical axis (3), with a maximum convergence of more than 45° to the optical axis.

Prior art G, H and I are not in the English language and an English language abstract of each prior art is attached to the copy thereof as a concise explanation of relevance.

It is, therefore, hereby respectfully requested that the Patent Office make a record of these relevant arts and consider them during the examination.

Respectfully submitted,
Date: November 4, 2004

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

November 4, 2004
Date of Deposit
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11/4/2004
Signature Date

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FORM PTO-1449	**Docket Number (Optional)** 153A 3474	**Application Number** 10/678,544
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	**Applicant** Yamamura	
(Use several sheets if necessary)	**Filing Date** 10/3/2003	**Group Art Unit** 2875

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1,721,611	7/23/1929	Webster			
	4,677,532	6/30/1987	Peitz et al.			
	6,332,702	12/25/2001	Hebler et al.			
	2004/0114390	6/17/2004	Yamamura			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	JP 2-47704	4/3/1990	Japan			
	EP 0 212 211	3/4/1987	EPC			
	GB 1 193 983	6/3/1970	Great Britain			
	AT 406 079	2/25/2000	Austria			
	JP 2001-006408	1/12/2001	Japan			
	JP 2002-170409	6/14/2002	Japan			
	FR 2 849 159	6/25/2004	France			

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER	**DATE CONSIDERED**

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.